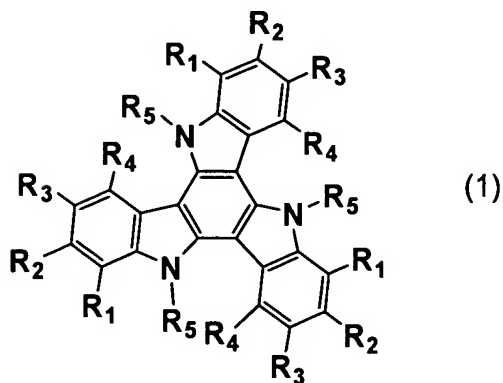


IN THE CLAIMS:

1.~~{1}~~ (Currently amended) A substituted Sym-triindole derivative represented by the following general formula (1):

~~{formula 1}~~

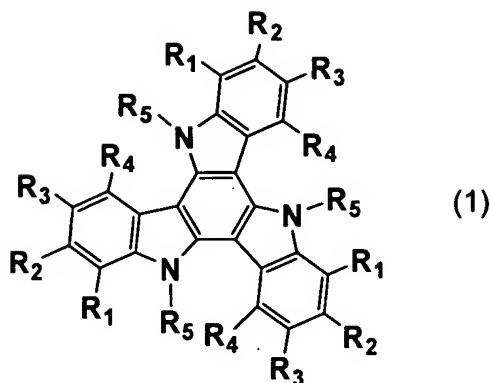


5 {wherein R₁, R₂, R₃ and R₄ are each independently hydrogen, halogen, C1-C6 alkyl group, C1-C6 haloalkyl group, substituted C1-C6 alkyl group, C2-C6 alkenyl group, substituted C2-C6 alkenyl group, C2-C6 alkynyl group, substituted C2-C6 alkynyl group, hydroxyl group, C1-C6 alkoxy group, aryloxy
10 group, amino group, mono-substituted amino group, di-substituted amino group, acylamino group, mercapto group, C1-C6 alkylsulfenyl group, C1-C6 haloalkylsulfenyl group, arylsulfenyl group, substituted arylsulfenyl group, C1-C6 alkylsulfinyl group, C1-C6 haloalkylsulfinyl group, aralkylsulfinyl group, arylsulfinyl group, substituted arylsulfinyl
15 enyl group, arylsulfinyl group, substituted arylsulfinyl

group, C1-C6 alkylsulfonyl group, C1-C6 haloalkylsulfonyl group, arylsulfonyl group, substituted arylsulfonyl group, sulfonic acid group (hydroxysulfonyl group), aryl group, substituted aryl group, cyano group, nitro group, formyl group, acyl group, carboxyl group, C1-C6 alkoxy carbonyl group, carbamoyl group, N-mono-substituted carbamoyl group, N,N-disubstituted carbamoyl group, hydrazonomethyl group (-CH=N-NH₂ group), N-mono-substituted hydrazonomethyl group, N,N-disubstituted hydrazonomethyl group, oximemethyl group (hydroxyiminomethyl group), C1-C6 alkoxyiminomethyl group, or aryloxyiminomethyl group; R₅ is C2-C12 alkyl group, substituted C2-C12 alkyl group, C2-C12 haloalkyl group, or aryl C1-C6 alkyl group; wherein, in no event, all of R₁, R₂, R₃ and R₄ are hydrogen simultaneously).

15 2. {2} (Currently amended) A process for producing a substituted Sym-triindole derivative represented by the following general formula (1):

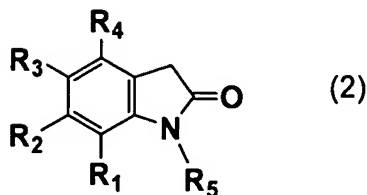
~~{formula 3}~~



wherein R₁, R₂, R₃ and R₄ are each independently hydrogen,
 halogen, C1-C6 alkyl group, C1-C6 haloalkyl group, substi-
 tuted C1-C6 alkyl group; C2-C6 alkenyl group, substituted C2-
 C6 alkenyl group, C2-C6 alkynyl group, substituted C2-C6 al-
 5 kynyl group, hydroxyl group, C1-C6 alkoxy group, aryloxy
 group, amino group, mono-substituted amino group, di-
 substituted amino group, acylamino group, mercapto group, C1-
 C6 alkylsulfenyl group, C1-C6 haloalkylsulfenyl group, aral-
 kylsulfenyl group, arylsulfenyl group, substituted arylsulf-
 10 enyl group, C1-C6 alkylsulfinyl group, C1-C6 haloalkyl-
 sulfinyl group, arylsulfinyl group, substituted arylsulfinyl
 group, C1-C6 alkylsulfonyl group, C1-C6 haloalkylsulfonyl
 group, arylsulfonyl group, substituted arylsulfonyl group,
 sulfonic acid group (hydroxysulfonyl group), aryl group, sub-
 15 stituted aryl group, cyano group, nitro group, formyl group,

acyl group, carboxyl group, C1-C6 alkoxy carbonyl group, carbamoyl group, N-mono-substituted carbamoyl group, N,N-disubstituted carbamoyl group, hydrazonomethyl group ($-\text{CH}=\text{N}-\text{NH}_2$ group), N-mono-substituted hydrazonomethyl group, N,N-disubstituted hydrazonomethyl group, oximemethyl group (hydroxyiminomethyl group), C1-C6 alkoxyiminomethyl group, or aryloxyiminomethyl group; R_5 is C2-C12 alkyl group, substituted C2-C12 alkyl group, C2-C12 haloalkyl group, or aryl C1-C6 alkyl group; wherein, in no event, all of R_1 , R_2 , R_3 and R_4 are hydrogen simultaneously), which process comprises reacting a substituted oxyindole represented by the following general formula (2):

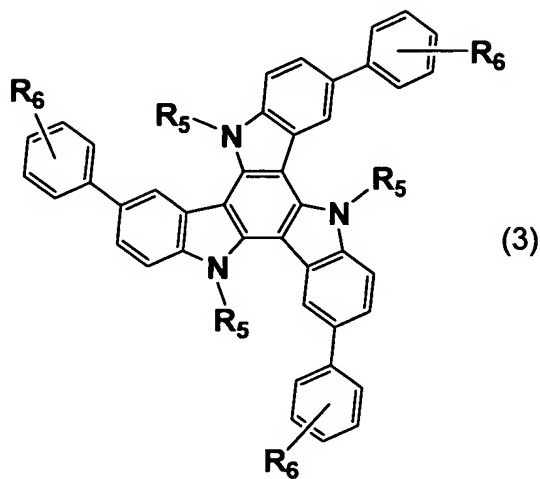
~~{formula-2}~~



~~{wherein R_1 , R_2 , R_3 , R_4 and R_5 have the same definitions as given above}~~, with a phosphorus oxyhalide.

3.~~{3}~~ (Currently amended) A Sym-triindole derivative represented by the following general formula (3):

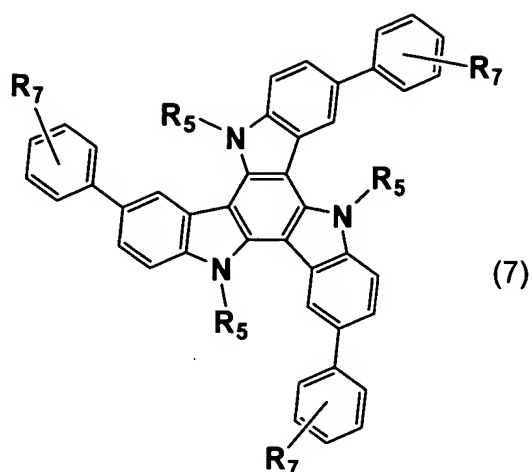
~~{formula 4}~~



wherein R₅ is C2-C12 alkyl group, substituted C2-C12 alkyl group, C2-C12 haloalkyl group, or aryl C1-C6 alkyl group; and R₆ is hydrogen, formyl group, cyano group, C1-C6 alkoxy carbonyl group, dicyanovinyl group, aryl group or substituted aryl group.

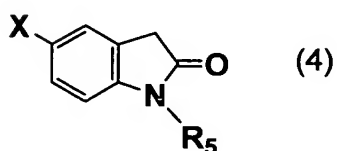
4.4 (Currently amended) A process for producing a Sym-triindole derivative represented by the following general formula (7):

10 ~~{formula 8}~~



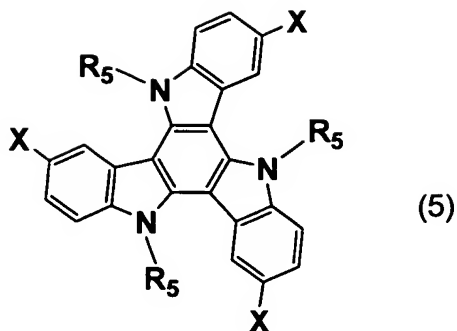
{wherein R_5 is C2-C12 alkyl group, substituted C2-C12 alkyl group, C2-C12 haloalkyl group or aryl C1-C6 alkyl group; and R_7 is hydrogen, formyl group, cyano group, C1-C6 alkoxy carbonyl group, aryl group or substituted aryl group}, which process comprises reacting an N-substituted-5-halo-oxyindole represented by the following general formula (4):

~~{formula 5}~~



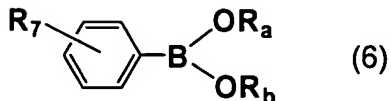
{wherein R_5 has the same definition as given above; and X is halogen}, with a phosphorus oxyhalide to obtain an N-substituted-5-halo-triindole derivative represented by the following general formula (5):

~~{formula 6}~~



{wherein R₅ and X have the same definitions as given above},
 and ~~further~~ reacting the derivative of general formula (5) it
 with a boric acid compound represented by the following gen-
 eral formula (6):

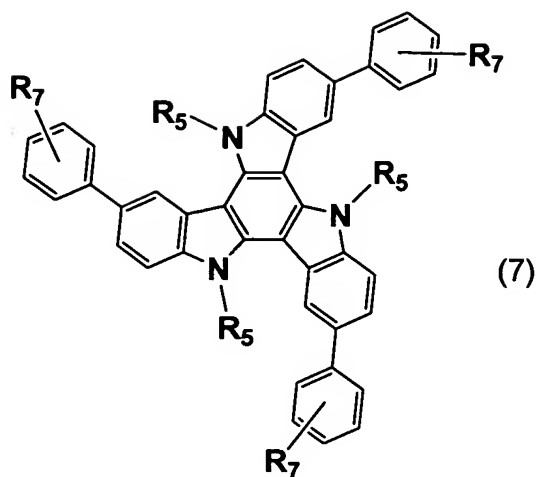
5 ~~{formula 7}~~



{wherein R₇ has the same definition as give above; and R_a and
 R_b are each independently hydrogen atom, C1-C6 alkyl group or
 optionally substituted phenyl group and may be combined to
 each other to form a ring}.

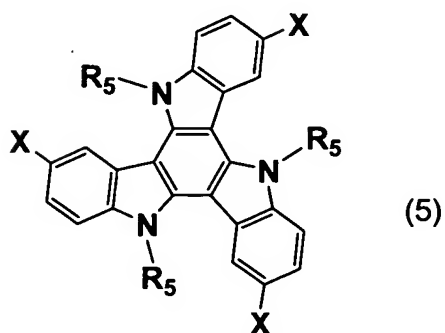
10 5.5 (Currently amended) A process for producing a Sym-
 triindole derivative represented by the following general
 formula (7):

~~{formula 11}~~



{wherein R_5 is C2-C12 alkyl group, substituted C2-C12 alkyl group, C2-C12 haloalkyl group or aryl C1-C6 alkyl group; and R_7 is hydrogen, formyl group, cyano group, C1-C6 alkoxy-carbonyl group, aryl group or substituted aryl group}, which
 5 process comprises reacting an N-substituted-5-halo-triindole derivative represented by the following general formula (5):

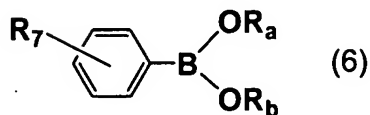
~~{formula 9}~~



{wherein R_5 has the same definition as given above; and X is halogen}, with a boric acid compound represented by the fol-

lowing general formula (6):

~~{formula 10}~~

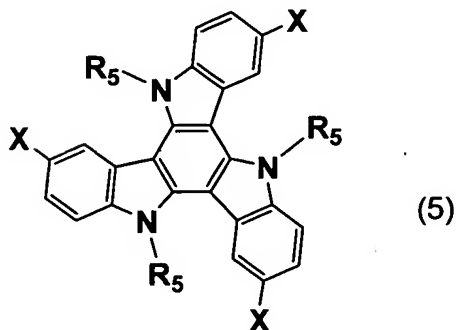


{wherein R₇ has the same definition as given above; and R_a and R_b are each independently hydrogen atom, C1-C6 alkyl group or optionally substituted phenyl group and may be combined to each other to form a ring}.

6.~~{6}~~ (Currently amended) A process for producing an N-substituted-5-halo-triindole derivative represented by the following general formula (5):

10

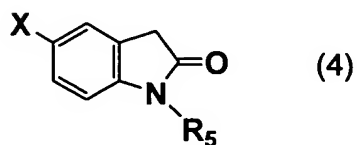
~~{formula 13}~~



{wherein R₅ is C2-C12 alkyl group, substituted C2-C12 alkyl group, C2-C12 haloalkyl group or aryl C1-C6 alkyl group; and X is halogen}, which process comprises reacting an N-

substituted-5-halo-oxyindole represented by the following
 general formula (4):

~~{formula 12}~~

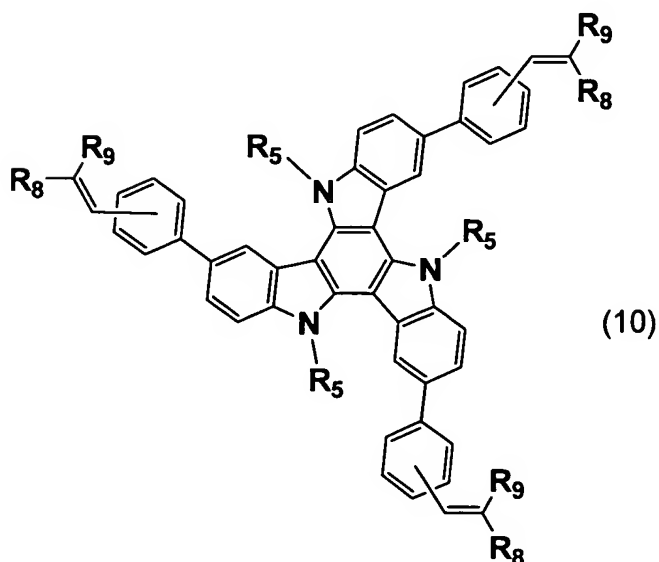


~~{wherein R₅ and X have the same definitions as given above},~~

5 with a phosphorus oxyhalide.

7.~~{7}~~ (Currently amended) A process for producing a Sym-
 triindole derivative represented by the following general
 formula (10):

~~{formula 16}~~

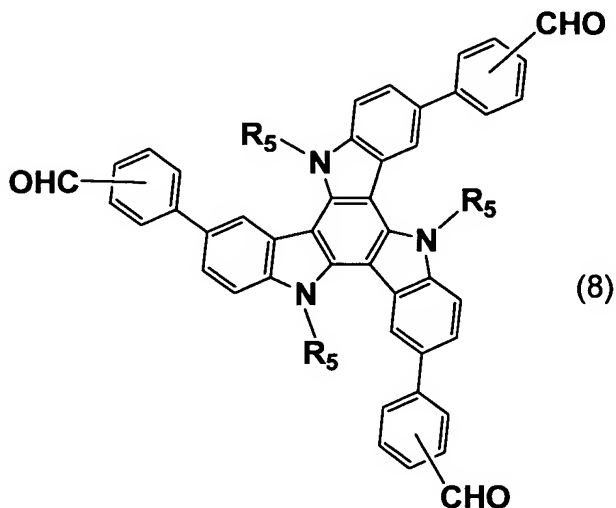


10 ~~{wherein R₅ is C2-C12 alkyl group, substituted C2-C12 alkyl~~

group, C2-C12 haloalkyl group or aryl C1-C6 alkyl group; R₈ is hydrogen or cyano group; and R₉ is cyano group, carboxylic acid group, C1-C6 alkoxy carbonyl group, aryloxy carbonyl group, aryl group or substituted aryl group}, which process comprises reacting a triindole derivative represented by the

5 following general formula (8):

~~{formula 14}~~



~~{wherein R₅ has the same definition as given above}~~, with a methylene compound represented by the general formula (9):

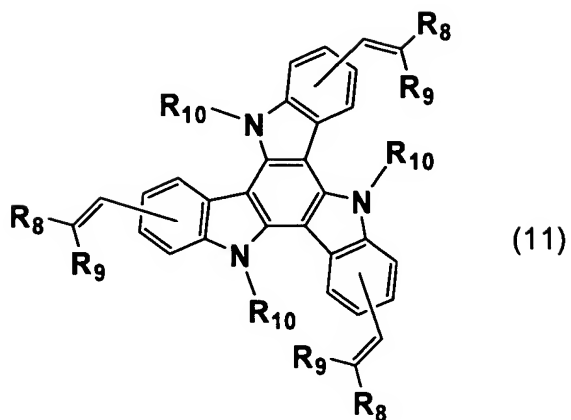
10 ~~{formula 15}~~



~~{wherein R₈ and R₉ have the same definitions as give above}~~.

8.~~{8}~~ (Currently amended) A Sym-triindole vinyl derivative represented by the following general formula (11):

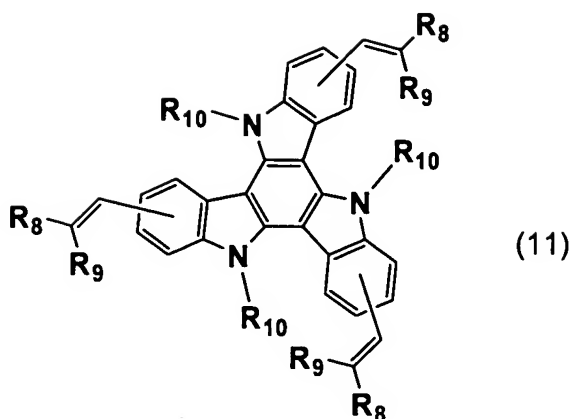
~~{formula 17}~~



~~wherein R₈ is hydrogen or cyano group; R₉ is cyano group, carboxylic acid group, C1-C6 alkoxy-carbonyl group, aryloxy-carbonyl group, aryl group or substituted aryl group; and R₁₀~~
5 ~~is C2-C12 alkyl group, substituted C2-C12 alkyl group, C2-C12 haloalkyl group or aryl C1-C6 alkyl group~~.

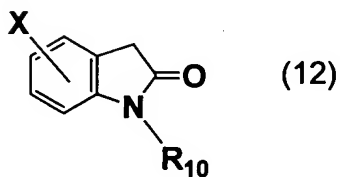
9.~~9~~ (Currently amended) A process for producing a Sym-triindole derivative represented by the following general formula (11):

10 ~~{formula 22}~~



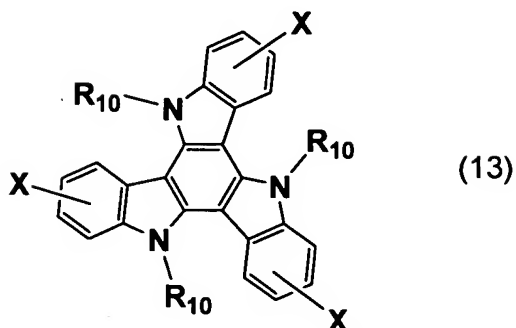
{wherein R_8 is hydrogen or cyano group; R_9 is cyano group,
 carboxylic acid group, C1-C6 alkoxy-carbonyl group, aryloxy-
carbonyl group, aryl group or substituted aryl group; and R_{10}
 is C2-C12 alkyl group, substituted C2-C12 alkyl group, C2-C12
 5 haloalkyl group or aryl C1-C6 alkyl group}, which process
 comprises reacting an oxyindole compound represented by the
 following general formula (12):

~~{formula 18}~~



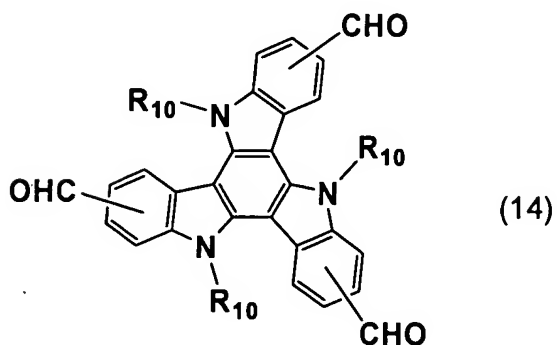
{wherein R_{10} has the same definition as given above and X is
 10 halogen}, with a phosphorus oxyhalide to obtain a Sym-halo-
 triindole derivative represented by the following general
 formula (13):

~~{formula 19}~~



{wherein R_{10} and X have the same definitions as given above},
subjecting the derivative of general formula (13)~~it~~ to formyl-
lation with a formylating agent in the presence of butyllith-
5 ium to obtain a Sym-formyltriindole derivative represented by
the following general formula (14):

~~{formula 20}~~



{wherein R_{10} has the same definition as given above}, and re-
acting the derivative of general formula (14)~~it~~ with a me-
10 thylene compound represented by the following general formula
(9):

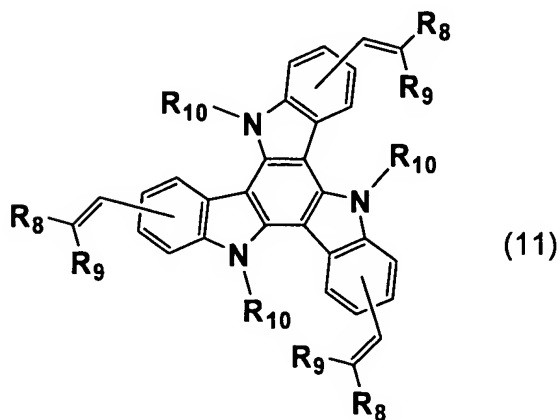
~~{formula 21}~~



(wherein R₈ and R₉ have the same definitions as given above).

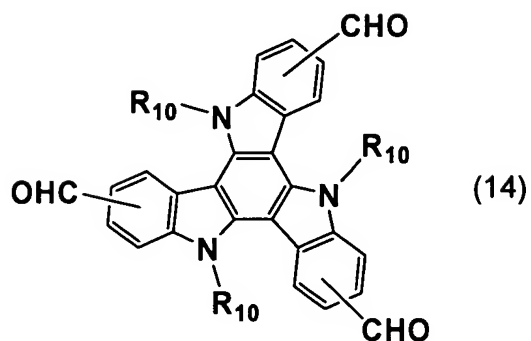
~~{10}~~10. (Currently amended) A process for producing a Sym-triindole derivative represented by the following general
5 formula (11):

~~{formula 25}~~



(wherein R₈ is hydrogen or cyano group; R₉ is cyano group, carboxylic acid group, C1-C6 alkoxy carbonyl group, aryloxy carbonyl group, aryl group or substituted aryl group; and R₁₀
10 is C2-C12 alkyl group, substituted C2-C12 alkyl group, C2-C12 haloalkyl group or aryl C1-C6 alkyl group), which process comprises reacting a Sym-formyltriindole derivative represented by the following general formula (14):

~~{formula 23}~~



~~{wherein R₁₀ has the same definition as given above}~~, with a methylene compound represented by the following general formula (9):

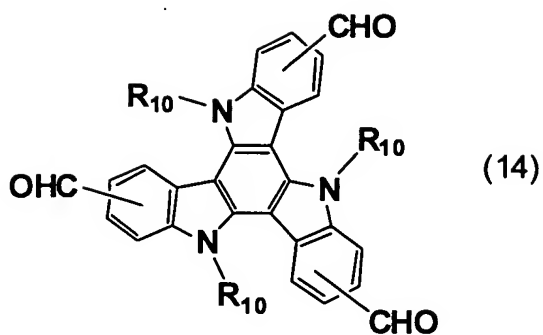
5 ~~{formula 24}~~



~~{wherein R₈ and R₉ have the same definitions as given above}~~.

11.~~{11}~~ (Currently amended) A process for producing a Sym-formyltriindole derivative represented by the following general formula (14):

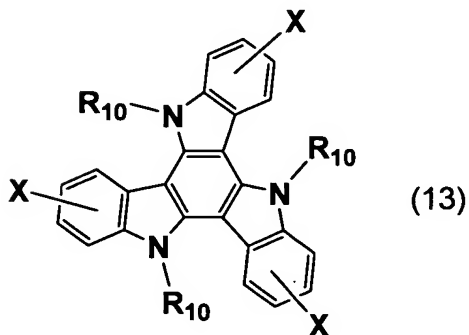
10 ~~{formula 27}~~



(wherein R_{10} is C2-C12 alkyl group, substituted C2-C12 ~~sub-~~
~~stituted~~ alkyl group, C2-C12 haloalkyl group or aryl C1-C6
 alkyl group), which process comprises subjecting a Sym-halo-

5 formula (13):

~~{formula-26}~~

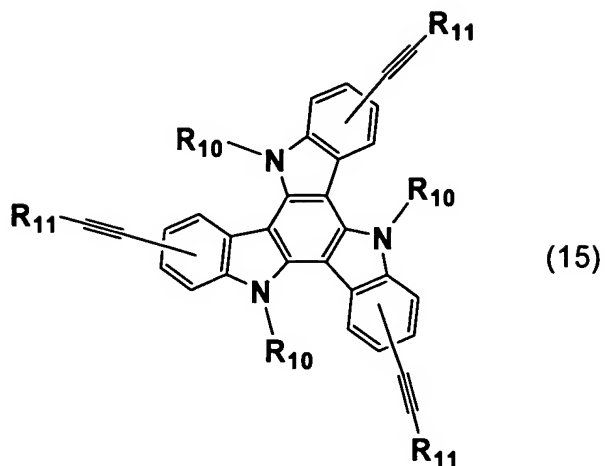


(wherein R_{10} has the same definition as given above and X is
 halogen), to formylation with a formylating agent in the
 presence of butyllithium.

10 12.~~{12}~~ (Currently amended) A Sym-triindole derivative
 represented by the following

general formula (15):

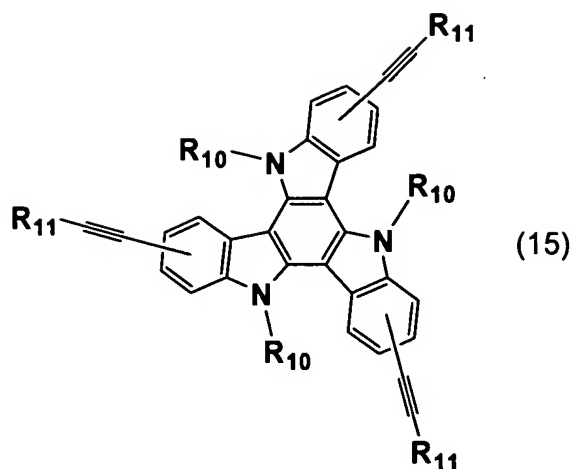
~~{formula 28}~~



~~{wherein R₁₀ is C2-C12 alkyl group, substituted C2-C12 sub-~~
~~stituted-alkyl group, C2-C12 haloalkyl group or aryl C1-C6~~
 5 ~~alkyl group; and R₁₁ is aryl group or substituted aryl group}~~.

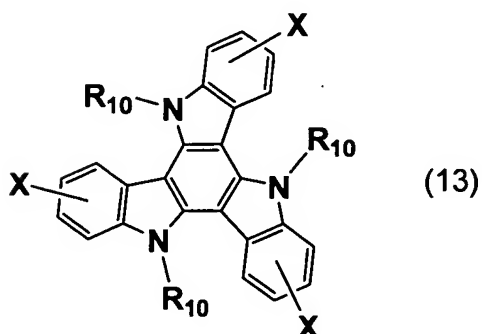
13.~~{13}~~ (Currently amended) A process for producing a
 Sym-triindole derivative represented by the following general
 formula (15):

~~{formula 31}~~



{wherein R_{10} is C2-C12 alkyl group, substituted C2-C12 alkyl group, C2-C12 haloalkyl group or aryl C1-C6 alkyl group; and R_{11} is aryl group or substituted aryl group}, which process comprises reacting a Sym-halo-triindole derivative represented by the following general formula (13):

~~{formula 29}~~



{wherein R_{10} has the same definition as given above and X is halogen} with an acetylene derivative represented by the following general formula (16):

~~{formula 30}~~

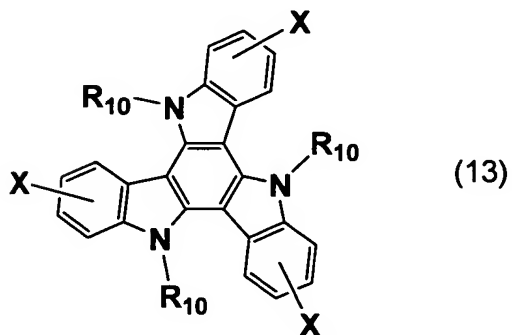


~~{wherein R_{11} has the same definition as given above and R_{12} is hydrogen or trimethylsilyl group}~~.

14.~~{14}~~ (Currently amended) A Sym-halo-triindole deriva-

5 tive represented by the following general formula (13):

~~{formula 32}~~



~~{wherein R_{10} is C2-C12 alkyl group, substituted C2-C12 alkyl group, C2-C12 haloalkyl group or aryl C1-C6 alkyl group; and X is halogen}~~.